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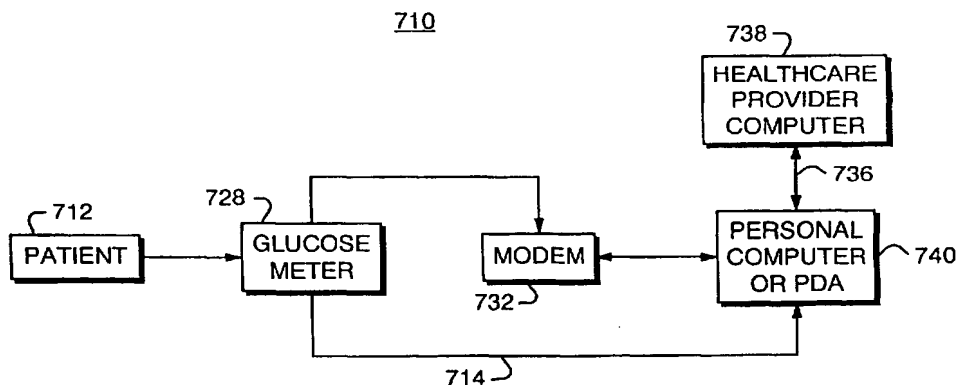
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(54) Title: MANAGING AND PROCESSING SELF-MONITORING BLOOD GLUCOSE



(57) Abstract: A method, system, and computer program product related to the maintenance of optimal control of diabetes, and is directed to predicting the long-term exposure to hyperglycemia, and the long-term and short-term risks of severe or moderate hypoglycemia in diabetics, based on blood glucose readings collected by a self-monitoring blood glucose device (710). The method, system, and computer program product pertain directly to the enhancement of existing home blood glucose monitoring devices, by introducing an intelligent data interpretation component capable of predicting both HbA1c and periods of increased risk of hypoglycemia, and to the enhancement of emerging continuous monitoring devices by the same features. With these predictions the diabetic can take steps to prevent the adverse consequences associated with hyperglycemia and hypoglycemia

INTERNATIONAL SEARCH REPORT

International Classification No.

PCT/US03/25053

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 5/00

US CL : 600/300, 319, 365; 702/22, 23, 25, 31, 33, 45, 46, 48, 50, 54 and 199

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 600/300, 319, 365; 702/22, 23, 25, 31, 33, 45, 46, 48, 50, 54 and 199

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|---------------|---|--|
| X --- A | US 5,971,922 A (Arita et al.) 26 October 1999 (26.10.1999) Entire doc. especially col. 8. | 1-5, 19-23, 37-90 and 98, 109 and 110 ----- 6-18, 24-36, 91-97, 99-108 and 111 |
| A | US 5,206,144 A (Zeuthen et al.) 27 April 1993 (27.04.1993), abstract and col. 2. | 1-111 |
| A | US 5,882,935 A (Hirai et al.) 16 March 1999 (16.03.1999), abstract and col. 2. | 1-111 |
| A | US 6,027,692 A (Galen et al.) 22 February 2000 (22.02.2000), col. 2 and abstract. | 1-111 |



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

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"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

22 March 2004 (22.03.2004)

Date of mailing of the international search report

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Continuation of Item 4 of the first sheet:

Title is too long. New Title:

Managing and Processing Self-Monitoring Blood Glucose Data